

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) Single-lip drill with a drill head on which is formed a bit, the latter being provided with at least one cutting edge for the machining by cutting of a workpiece and with the cutting edge is associated at least one chip former for shaping the chips cut off by the cutting edge, ~~characterized in that~~ wherein the chip former (21) has a positive rake angle (γ).

2. (Currently amended) Single-lip drill according to claim 1, ~~characterized in that~~ wherein the rake angle (γ) is between 10 and 30°, particularly between 15 and 25°.

3. (Currently amended) Single-lip drill according to claim 1 ~~or 2~~, ~~characterized in that~~ wherein the chip former (21) has a chip guide face (26) for guiding the chips (22) and at least one chip break section (27) for breaking the chips (22).

4. (Currently amended) Single-lip drill according to claim 2 ~~or 3~~, ~~characterized in that~~ wherein the chip break section (27) is positioned at a distance from the cutting edge (19) suitable for setting a desired chip size.

5. (Currently amended) Single-lip drill according to claim 4, ~~characterized in that~~ wherein the distance is between 0.2 and 1.5 mm, particularly between 0.3 and 0.6 mm.

6. (Currently amended) Single-lip drill according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein the chip former (21) is constructed as a slot adjacent to the cutting edge (19) and in particular as a slot with a substantially U-shaped cross-section.

7. (Currently amended) Single-lip drill according to ~~one of the preceding~~ claim[[s]] 1, ~~characterized in that~~ wherein a functional coating (29), preferably for increasing wear resistance, is provided on at least one functional surface of the single-lip drill (29).

8. (Currently amended) Single-lip drill according to claim 7, ~~characterized in that~~ wherein at least the chip former (21) and/or at least one clearance (20) is provided with the functional coating (29).

9. (Currently amended) Single-lip drill according to ~~one of the claim 7 or 8,~~ ~~characterized in that~~ wherein the functional coating (29) is provided on all the functional surfaces participating in the cutting process.

10. (Currently amended) Single-lip drill according to ~~one of the claim[[s]] 7 to~~ 9, ~~characterized in that~~ wherein the functional coating (29) is at least partly made from hard material, particularly metallic hard material.

11. (Currently amended) Single-lip drill according to claim 10, ~~characterized in that~~ wherein a nitride or carbide, particularly a light metal nitride is provided as the metallic hard material.

12. (Currently amended) Single-lip drill according to claim 11, ~~characterized in that~~ wherein titanium aluminium nitride is provided as the light metal nitride.

13. (Currently amended) Single-lip drill according to ~~one of the claim~~[[s]] 7 to 12, ~~characterized in that~~ wherein the functional coating (29) has several layers (29a, 29b).

14. (Currently amended) Single-lip drill according to claim 13, ~~characterized in that~~ wherein at least one hard material layer (29a) and at least one soft material layer (29b) adjacent to the hard material layer is provided, the hard material layer (29a) forming an outer layer.

15. (Currently amended) Method for the manufacture of a single-lip drill, ~~particularly a single-lip drill according to one of the preceding claims~~, the method comprising the following steps:

- manufacturing a drill head with a single-lip drill geometry,
- applying a chip former in the vicinity of a bit of the single-lip drill,
- coating at least part of the surface of the drill head with a functional coating.

16. (Currently amended) Method according to claim 15, ~~characterized in that~~ wherein the functional coating is applied following a resharpening, particularly a regrinding of the drill head.

17. (Currently amended) Method according to claim 15 ~~or 16, characterized in that~~ wherein at least the chip former is coated.

18. (Currently amended) Method according to ~~one of the claim[[s]] 15 to 17,~~ wherein all the surfaces participating in the cutting process are coated.

19. (Currently amended) Method according to ~~one of the claim[[s]] 15 to 18,~~ wherein a chip former with a positive rake angle is formed.

20. (Currently amended) Method according to ~~one of the claim[[s]] 15 to 19,~~ wherein the chip former is constructed as a slot adjacent to the cutting edge of the bit and in particular with a U-shaped cross-section.